

Cordell Bank National Marine Sanctuary

**SANCTUARY ADVISORY
COUNCIL**

MEMBERS:

Edmund Smith
Research

Lance Morgan
Conservation

Chuck Wise
Maritime Activity

Susan Anderson
Community-at-Large Sonoma

Education

George Clyde
Community-at-Large Marin

Jaime Jahncke
Research Alternate

Todd Steiner
Conservation Alternate

Josh Churchman
Maritime Activity Alternate

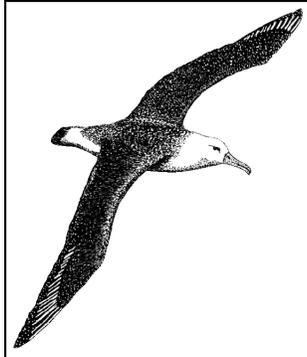
Brian Mulvey
Community-at-Large Sonoma Alternate

Bill McMillon
Education Alternate

Liza Crosse
Community-at-Large Marin Alternate

**Agenda
Cordell Bank National Marine Sanctuary
Advisory Council
Red Barn, PRNS
May 22, 2008**

<u>Time</u>	<u>Topics and Objectives</u>
9:00-9:15	Welcome, Roll Call, Review Agenda – Lance Morgan
9:15-9:30	Review March 25th Minutes – Lance Morgan
9:30-9:40	Public Comment
9:40-10:00	Introduction of Korean Group – Dan Howard
10:00-10:30	Manager’s Report – Dan Howard
10:30-10:40	Education Report – Jennifer Stock
10:40-10:50	Research Report – Lisa Etherington
10:50-11:00	Break



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11:00-11:30

Council Member Reports

– Lance Morgan

11:30-11:45

**National Chairs Coordinators
Meeting Summary**

– Lance Morgan

11:45-12:15

**MPA Recommendation for North
Central Coast**

– Lance Morgan, Josh Churchman

12:15-1:00

Lunch

1:00-1:30

H.R. 1187 Update and Discussion

– Tom Roth

1:30-2:15

West Coast Regional Update

– Bill Douros

2:15-3:00

Questions for Bill Douros

3:00-3:30

**Discussion – Next Steps in Wave
Energy Involvement for the
Council**

– Dan Howard, Lance Morgan

**Cordell Bank National Marine Sanctuary
Advisory Council Meeting Minutes
May 22nd, 2008**

Meeting Commenced at 9:15 a.m.

Roll call, Review Agenda – Lance Morgan

Roll -

Council Members Present:

Lance Morgan
Todd Steiner
Jaime Jahncke
George Clyde
Bill McMillon
Susan Anderson
Josh Churchman
Bill Douros

Voting Alternates

Bill McMillon
Josh Churchman
Jaime Jahncke

Staff Present:

Rowena Forest
Dan Howard
Jennifer Stock

Review Last Meeting's Minutes

Motion

Lance Morgan moved to accept 3-25-08 Cordell Bank Advisory Council minutes as final

Bill McMillon seconds

All in favor

Public comment

Introduction of public members -
Dan introduced NMFS personnel
Diane Windham – Sacramento Office
Peter Fischel – Long Beach Office

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Visiting Korean Contingent –

Dr. Byoung-Seol Koh – National Fisheries Institute of Korea

Mr. Ki-Jung Lee – District Tourism Minister, Suncheon City, Korea

Dan Howard provided an overview of the Sanctuary Advisory Council structure to Dr. Koh and Mr. Lee

Dr. Koh gave a presentation of the National Fisheries Research and Development Institute:

He introduced the Korean marine projects and showed a video produced to introduce the marine protected area of Suncheon Bay.

Power Point:

Korean Coastal Wetland

The Use of Coastal Wetland

National Land Development Project

Korean Marine Management Areas

Marine Protected Areas

Chart of Wetland Conservation Areas and Marine Ecosystem Conservation Area

National Research Program – Coastal Wetland Basic Investigation – began 1999

Citizen Monitoring and Expert Monitoring

Education and Outreach

International Cooperation

Joint Project – NOAA, Ministry of Maritime Affairs and Fisheries of the Republic of Korea

Korean MPA Advisory Council

Problems within the Korean MPA's – government initiative designation, MPA Center, MPA Advisory Council

Questions Comments-

Dan Howard asked if the local community supported MPA's?

A – Depends on the region and activities in that area. In general Koreans love the natural environment and want to conserve.

Q – What are the rules and limits within the MPA's? Any fishing allowed, etc..?

A – Dr. Koh explained the government's land use policies.

Dr Koh explained NOAA's involvement within the Korean system. NOAA has helped to expand the Korean's management skills in order to enhance protection of the MPA's

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Manager's Report – Dan Howard
(See Attachment #1 for details)

Staffing and position funding
Office Expansion.
Ban on krill harvesting
Spill response and dispersants drill
PRBO Conservation Partner Award

Action Item:

*Josh Churchman motioned to send a letter reaffirming the Cordell Bank Advisory Council's support of a ban on commercial Krill harvest to Rod McGinnis, thanking NMFS for this effort. Lance Morgan – SAC Chair – will send the letter.
Bill McMillon seconds
All in favor*

Dan asked Bill Douros to comment on reauthorization of the Marine Sanctuaries Act: Staff on house committee participated on a cruise in the GFNMS, to tour and discuss the Sanctuaries. Two months later there was a Congressional hearing regarding reauthorizing the Act. Bill outlined the options for “re-writes” of the Act. The most likely scenario will be a modest re-write of the Act. The Cosco Busan spill brought light to Congressional staff regarding the need to protect the marine environment and support Sanctuaries.

Research Report – (Dan for Lisa Etherington)
(See Attachment #2 for details)

Research cruise aboard the MacArthur
Analyzing data from the Delta submersible monitoring efforts
Cordell Bank Ocean Monitoring Program
SIMoN website includes Cordell Bank National Marine Sanctuary

Education Report – Jenny Stock
(See Attachment #3 for details)

Animals in Curriculum based ecosystem studies (ACES)
Jennifer showed some demographic information from online workshop
Interactive touch screen kiosk exhibit needs a new location

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BWET Grant Program

Interpretive program in partnership with the Point Reyes National Seashore
Ocean Currents Radio Program

Break

Council Member Reports – Lance Morgan

Jaime Jahncke – PRBO

Jaime gave an overview of marine research projects at PRBO, in particular research cruises in conjunction with the Sanctuaries. Jaime outlined cruise research methods, and hi-lighted oceanographic data gathered on the cruises. Jaime also summarized seabird studies on the Farallon Islands, and subsequent data collected on these studies.

George Clyde –

Grunion greeting with Dale Roberts survey on Dillon Beach. No grunion found.

Proposed Awards Program – George’s proposal includes Cordell SAC issuing awards to organizations or individuals who have contributed to Cordell Bank NMS. George outlined ideas for this proposed program, which has been discussed with Dan Howard and Jenny Stock of CBNMS. Examples – organizations partnering with local media that have covered Sanctuary news, research organizations, schools/ teachers, etc..

SAC commented that this might be a good program for the new CB Foundation to partner on. The SAC discussed possibilities for Cordell Bank annual events. The SAC suggested the FMSA annual award dinner might be a good venue to present such an award, or more frequently. George solicited if any SAC members would like to participate with him to develop this program. Yes – several SAC members are interested.

Todd Steiner –

Annual salmon smolt trapping on Lagunitas Creek. Todd announced the upcoming event – The Great Turtle Race, in conjunction with other sea turtle conservation organizations. This is an event that tracks individual tagged turtles with participation by school students following individuals on the website. www.Greatturtlerace.com

Todd summarized the second annual hammerhead shark tagging expedition at the Cocos Islands. This expedition is being run as an Earthwatch program.

Bill McMillon – Bill reported about the recent SAC and Marine Sanctuary cruise on the Fulmar vessel out of Monterey Bay.

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**National Chair's Coordinator's Meeting – Newport News, Virginia
– Lance Morgan**

Lance summarized the 2008 National meeting proceedings, attendees, and Advisory Council Chairs' interaction with Dan Basta.

Lance handed out a list of Sanctuary vessels, example of other Sanctuary Condition Reports, Stellwagen Bank data of Right whale presence, NMSP Maritime Heritage program information, Blue Seas Green Communities Initiative.

Lance summarized what other Sanctuaries are doing with this initiative.

Lance discussed the Chairs' meeting time spent with Dan Basta. Dan Basta discussed HR 1187, the National Marine Sanctuary Foundation, and Arctic Marine Sanctuary possibilities, amongst other topics. Lance summarized the regional case study presentations, and the discussion at the Chair's dinner with Dan Basta, which included the Management Plan Review Process, and National Council of Chairs.

Bill Douros discussed his interactions and discussions with the Chairs at this National meeting. Bill discussed the option of holding a Regional SAC meeting once a year.

Marine Protected Area Recommendation made by CA State Blue Ribbon Task Force, for the North-Central Coastal Region – Lance Morgan, Josh Churchman

Lance introduced the Marine Protected Area (MPA) stakeholder group process, and the four proposals for MPA networks that came out of the process.

Josh Churchman outlined the position of fishermen regarding the MPA process, and the concerns of local small scale fishermen going out of business as a result of MPA restrictions. Lance commented on the working process and how stakeholders worked together.

Lance summarized how individual coastal areas fit into the proposals. Josh commented that the process seemed to be over very quickly. Lance and Josh discussed rockfish closures.

Lunch

HR 1187 Update and Discussion – Tom Roth

Tom distributed an updated map of the proposed boundary expansion, and discussed the process to date of the Boundary Expansion Bill coming to the House of Representatives floor, and to the Senate Committee hearing. Tom discussed the details of the Senate

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Committee hearing, as well as congressional support. A week after the hearing, there was a full mark-up hearing, which went very smoothly. Tom discussed the concerns of an organization that voiced an opinion against aquaculture, and Senate changes to the HR 1187 bill allowing aquaculture. The House provision prohibiting aquaculture was taken out of the Senate version of the bill. Some technical boundary modification also took place on the bill. Authorization for funding was also pulled out of the bill in the Senate version.

Passing the bill looks good for this year.

Todd asked if non government organizations should weigh-in on the bill? Tom answered yes, that it greatly helps support the bill.

Dan asked about when the House and Senate come together to reconcile as a committee, who will sit on that? Tom answered that committee members are appointed.

George asked about the aquaculture provisions mentioned in the bill, and commented that the Sanctuaries could perhaps address this during a Management Plan Review in their regulations revisions or additions.

Bill Douros asked if the boundaries on the revised bill still look exactly as the current map shows. Tom answered, yes.

West Coast Regional Report – Bill Douros

Bill summarized the new National Marine Sanctuary regional structure. Bill commented that other organizations already function under Regional Structures.

Outlined how the West Coast Region of Sanctuaries encompasses a little of everything.

Three outcomes look for in the Regional Office –

Looking for projects that will better integrate the Sanctuaries regionally

Producing needs documents that connect the common needs among the West Coast such as: water quality, maritime heritage, habitat mapping, etc

Bill discussed the Region supporting West Coast Observation System, and water quality projects supported.

Bill discussed his continued support of boosting the budget of Cordell Bank and how Cordell Bank has been consistently under-funded. Bill noted that Cordell Bank needs to get more attention, and projects should be supported that raise the profile of Cordell Bank. Bill encouraged the SAC to help with this. He compared it to “marketing” Cordell Bank NMS and its projects.

Bill discussed projects the Region is involved with: Working in Oregon , support of HR 1187, etc..

Regional office involvement with headquarters: vessel projects, facilities planning, testified at Sanctuaries Act Reauthorization hearing.

Regional Support and looking forward to 2008 and 2009:

Bill noted that the Region is working to get the Management Plans completed. Hoping to get the JMPR done by Fall 2008. Bill discussed the option of taking the regulations out of the Management Plans to streamline the process, and the pros and cons of this.

Boundary Expansion is a top priority for '08-'09

Adding Davidson Seamount to the Monterey Bay National Marine Sanctuary

SIMoN – Bill suggested walking the Advisory Council through the SIMoN website at some point. He discussed the structure and value of the SIMoN website, and its ability to help connect and enhance the projects and image of research at Cordell Bank NMS.

Bill discussed the future of vessels and the vessel program for the West Coast Region, as well as Region supported research projects.

Matt Brookhart – international programs through the Region: Marine science collaborations with Korea, and Chile. Bill discussed seabird, sea turtle, and shark research projects connecting the west coast and foreign countries.

Bill discussed the ban on krill fishing off the West Coast, and the cooperative efforts to accomplish this. Bill pointed out the collaboration between the West Coast Sanctuaries and fisheries councils to protect areas.

Bill discussed the Regional Program's support of implementing the designated California Marine Protected Areas.

National projects in relation to the Region are:

Reauthorization of the Sanctuaries Act

"Nims Island" and "Little Mermaid" educational curricula

Leadership Team Meeting coming to San Francisco and Cordell Bank in January, 2009

George commented –

He thinks the SIMoN website is fantastic, and the Cordell Bank web pages concerning the research projects are wonderful.

Josh commented –

The new vessels coming into the West Coast Sanctuary program should be as "green" as possible, and not so fuel inefficient.

Bill discussed the new Sanctuary Program aircraft.

Susan asked –

What is it that Stellwagen Bank NMS does well to get their point across to enhance the image of their Sanctuary, and how do they best use their money? (as a comparison to Cordell Bank as a similar offshore seamount site – and how Cordell can better enhance it's image nationally):

Bill - They have conducted good comprehensive research projects that further the understanding of the animals and environment, and they understand how to create change integrating the public and industry input to protect the environment of Stellwagen Bank.

The SAC and Bill discussed further investigating priorities and shortfalls as a result of the current Cordell Bank budget, and how to enhance it, as well as the budget of the entire Marine Sanctuary Program.

Next Steps in Wave Energy Involvement for the Council – Dan Howard, Lance Morgan

Lance introduced the subject

Dan summarized the take-home messages from the wave energy presentations: David White spoke first, David is a hydraulic engineer working for NMFS in Santa Rosa and has been following permit requests to FERC for wave energy installations because they could have significant impact on trust resources.

Have been many permit requests the last couple of years - Preliminary permits are very different from licenses. Preliminary permits allow for both feasibility and technology testing and preserve first priority at the proposed project site. They do not authorize construction. They last 3 years. David then summarized the Sonoma coast application by the Sonoma county water agency – which has been denied by FERC since our last SAC mtg. My take away from David’s presentation is that there is a lot of activity right now.

A lot of the activity is maneuvering to obtain the first right and in Sonoma County’s case it was securing the right so they would be able to control what was developed off their coast. NOAA is monitoring this activity to make sure endangered species and other resources are not ignored during this process.

Mirko Previsic presented from the industry perspective and touched on energy demands, siting requirements and provided some examples of the wave generation technology. There are only a few places on the west coast where wave energy and infrastructure are adequate to support a wave energy project. SF bay area and Humboldt Bay are the only two in this area. The location with the highest wave potential in our area is just west of Cordell Bank. These projects are extremely expensive and can take ten years or longer to get off the ground. The only commercial wave generation venture in the world is in Portugal and required 50M in R&D and ten years before it was ready to go. Mirko disagreed with calling it a gold rush for that reason. He then presented several different experimental designs that are deployed in various places. Wave energy will not be real until costs are competitive with wind – are not there yet.

Final presentation was by Scott Terill from Harvey and Associates talking about ecological implications of wave energy installations. Scott touched on several potential impacts to different animal groups including sea birds, marine mammals and fish but

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there are no data to support any claims. Spent some time discussing potential impacts of light pollution on nocturnal seabirds. Since any of the designs with equipment at the surface will require lights, they will negatively impact seabirds attracted to the lights. He supported rigorous monitoring of any installation to collect data that would allow us to better understand impacts but wildlife impacts are largely unknown.

Three options as I see it:

No action

Monitor activity to see if anything develops

Develop resolution with recommendation for sanctuary

The SAC discussed this, and the finer points of the presentations, including the feasibility permits of wind technology.

George noted that wave energy plants can be used for other reasons other than electricity for the cost. Charging hydrogen cells, etc..

Rowena mentioned that the three presentations/power points are linked to the Cordell Bank SAC website: cordellbank@noaa.gov

The SAC and Dan discussed permitting of wave energy development and farms, and the limits on Cordell Bank NMS to permit such activities.

The SAC discussed theories of allowing wave energy development within Sanctuaries by the fact that it is “clean energy” development, and the pros and cons of this philosophical point.

The SAC discussed options for further involvement into the wave energy topic. The majority of the Council members felt that waiting and watching what happens seems best, due to the non-imminent nature of the topic as it affects Cordell Bank.

Lance asked the Council for topics they would be interested in discussing at future meetings:

Bill McMillon mentioned the topic of new marine science programs within local high schools as a topic to be presented to the SAC.

Derelict Fishing gear project report

Todd mentioned that the marine debris project would be a good opportunity for public outreach. This can be further explored.

Other suggestions for future meetings included –

Office of Spill Protection and Response decision matrix for spill response update

HR 1187 update from Senate office perspective

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Meeting Adjourned – 3:24 pm

Action Items

Motion

*Lance Morgan moved to accept 3-25-08 Cordell Bank Advisory Council minutes as final
Bill McMillon seconds*

All in favor

Motion

*Josh Churchman motioned to send a letter reaffirming the Cordell Bank Advisory
Council's support of a ban of Krill harvest to the Pacific Fisheries Management
Council(PFMC)/Rod McGinnis, and thanking them for this effort. Lance Morgan – SAC
Chair – will send this to the PFMC.*

Bill McMillon seconds

All in favor

**Cordell Bank National Marine Sanctuary
Advisory Council Meeting Agenda
Point Reyes National Seashore
May 22nd, 2008
Attachments**

Attachment #1

Manager's Report – Dan Howard

The regional office has provided partial funding for a research assistant to back fill for Michael Carver as Michael starts to address many of the resource protection duties at the site. Michael will be our site contact for resource protection issues and will coordinate our emergency response plan with GF and MB, address resource protection actions in our MP, attend Coast Guard area contingency planning meetings, and review permit applications among other things. The research assistant will be working very closely with Lisa Etherington, our research coordinator, on our monthly monitoring, submersible data, and other site characterization activities.

Office Expansion –Sanctuary staff met with planners and architects from the NOAA Western Region Project Planning and Management Division to start the design process for the expanded office space in the red barn. Next step is to hire a firm to do project programming and a 35% design.

We just got word a few weeks ago that the ban on commercial harvest of krill cleared Office of Management and Budget so the prohibition is moving forward. This action started in 2002 as part of the JMPR process with the MBNMS forming a working group that came up with a recommendation to prohibit the commercial harvest of krill in sanctuaries and the JMPR managers wrote a letter supporting the recommendation. Bill Douros, took this recommendation to the Pacific Fisheries Management Council who decided that the ban should encompass the west coast EEZ.

Michael Carver attended the Smith River National Preparedness Drill sponsored by the USCG. The drill scenario began on May 13, 2008 when the tug Henry Sause and its 90,000 bbl capacity fuel barge, "Drakes Bay", hit the motor vessel BLACK PEARL, a southbound 900-foot container ship. The purpose of the exercise was to establish appropriate Unified Command for a cross border incident between California and Oregon, establish potential places of refuge and consider application of dispersants within the Unified Command. Also under evaluation during the drill was the Sause Brothers Vessel Response Plan, the Northern California Area Contingency Plan, the Northwest Area Contingency Plan and Regional Response Team (RRT) 9 & 10 Contingency Plans. Agencies involved included the U. S. Coast Guard, NOAA, California Department of Fish and Game Office of Spill Prevention and Response, Oregon Department of Environmental Quality and oil spill response organizations.

Cordell Bank and Gulf of the Farallones NMS were awarded the Conservation Partner award by PRBO conservation Science at their annual board meeting and celebration. The sanctuaries and PRBO have been partnering on a couple different research and monitoring efforts. Results from cruises since 2004 have helped to explain the dismal showing of salmon in sanctuary waters in 2008 and a link with poor oceanographic conditions in 2005.

Attachment #2

Research Report – Lisa Etherington

1) There was a CBNMS cruise on the NOAA ship MacArthur II with PRBO Conservation Science, April 6-14. This year's sampling represents the 5th year in a time series to understand how upwelling conditions (timing and intensity) influence physical conditions, phytoplankton, zooplankton, and predator levels within the Gulf of Farallones and Cordell Bank region. Lisa Etherington participated as Chief Scientist. Jaime Jahneke was the Principal Investigator. A NOAA Teacher-At-Sea from Connecticut also participated. Sampling was conducted during a strong wind event and oceanographic conditions were indicative of upwelling of cold, nutrient-rich waters. One sighting of importance was a Short-tailed Albatross, an endangered species that is an infrequent visitor to the California-Current ecosystem. Despite this rare sighting, there were relatively few observations of seabirds and marine mammals during the cruise. Nevertheless, net samples produced a relatively large quantity of krill.

2) Lisa, Pam, and Dale are working on analyzing data from Delta submersible transects to examine the relationship between cold water corals and habitat features on the Bank (using multibeam data collected by CSUMB). Lisa presented a talk at the GeoHab meeting in Sitka, AK in late April. The meeting focused on marine geological and biological habitat mapping and Lisa's talk was part of a session on cold water coral and sponge habitats and the use of proxies for habitat prediction. Results from this study demonstrate contrasting patterns of distribution and habitat associations for the hydrocoral *Stylaster californicus* and gorgonians (*Swiftia spp.*) and provide a framework for protecting and monitoring these sensitive species and their associated communities.

3) CBOMP has been testing methods of direct computer data entry of bird/mammal data in the field. This method will improve efficiency, improve error checking, and allow for rapid production of summary tables and figures shortly after the monthly surveys.

4) The new expanded SIMoN website that includes not only MBNMS, but also GFNMS and CBNMS, has gone live. Check out the new pages that summarize the natural history of the CBNMS area and the monitoring and research projects being conducted in the sanctuary. <http://sanctuarysimon.org/>

5) The Cordell Bank NMS condition report has undergone major revision and has been sent out for external review. The final production of the report will likely be late summer/early fall.

Attachment #3

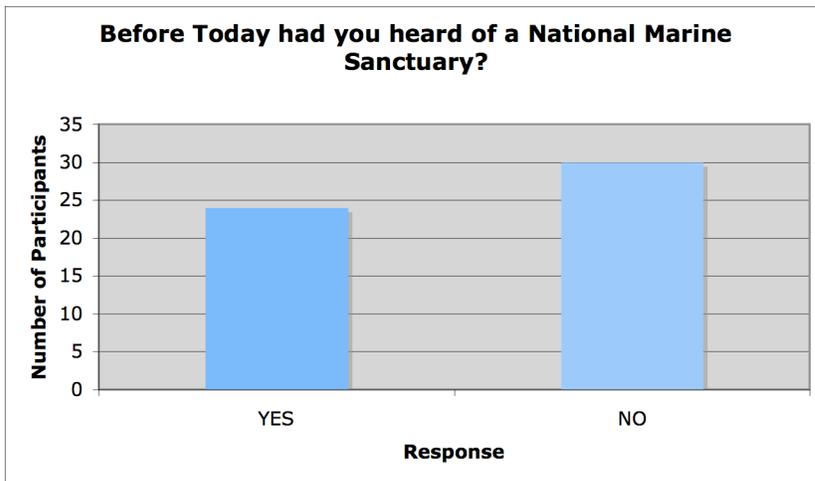
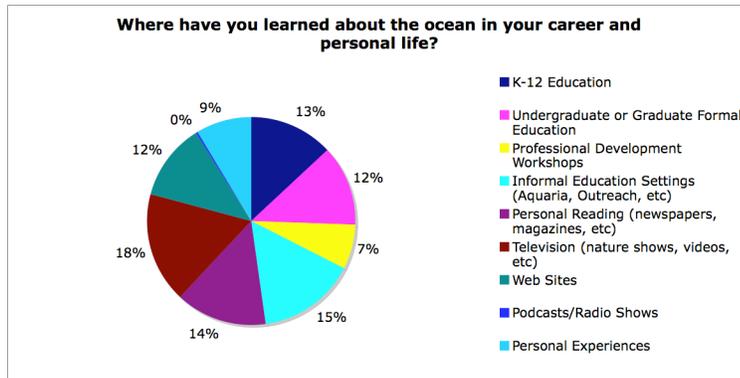
Education Report – Jennifer Stock

Animals in Curriculum based ecosystem studies (ACES) is a program that CBNMS is a collaborator on. It is a NOAA Environmental Literacy Grant 3 year funded initiative. The collaborators are: US Satellite Laboratory, Oikonos Ecosystem Knowledge, Cordell Bank NMS, NOAA, and Hawaii Pacific University. The goal of the program is to use NOAA remote sensing data with high quality curriculum based activities to improve ocean literacy. We got involved with this initiative when Oikonos Ecosystem Knowledge started the tagging of Black-footed Albatrosses in the CBNMS and wanted to reach students through the incredible geographic range and conservation stories the albatross can explain. In 2007, we hosted two onsite workshops, one in NY, one in CA and one interactive online workshop. This year we will be doing 2 more onsite workshops and another online workshop in the late fall. You can go to www.signalsofspring.net/aces to view the program and explore the animals. This year we will be adding Black foots from Kure Atoll to the program, and pink footed and sooty shearwaters in addition to the mix of animals already online.

Jennifer showed some demographic information from the online workshop participants. States that participated in the workshop ranged from:

AL,CO,FL,IN,MI,NJ,NM,NY,OH,VA, WA, AZ, CA, CO, MA, NJ, NV, OK, in addition to the two onsite workshops in CA and NY. For the online participants 54% live 500-999

miles away from salt water, 13% live 1000 miles or more away, 11% live 0-9 miles away, 11% live 100-149 miles away, 9% live 10-49 miles away, and 2% live 50-99 miles away.



Post Workshop Survey-online teachers responses

What is a National Marine Sanctuary?

68% (36/53) of responses stated that some form of protection existed.

“A National Marine sanctuary is an area designated to protect marine animals, their breeding and feeding grounds. Some human commercial activity is permitted so long as it doesn't effect the animals negatively.”

Most recognized that a National Marine Sanctuary was designated to protect a significant marine habitat

Sanctuaries are places for research and education to take place.

“an area in the ocean where ocean life is both protected and studied” and “a place where research is completed, natural environments are protected and people can be introduced to the ocean and all of its inhabitants” “A safe haven for protected organisms that also educates people.”

Of the responses that indicated who managed these areas, the federal government was the only stated agency/organization that was stated

Jennifer shared some of the preliminary responses from students about the ACES program and their attitudes about the ocean. The responses show that students are getting concepts about basic ocean literacy and like learning about the ocean.

Jennifer mentioned that we have an interactive touch screen kiosk exhibit that may need a home. The Point Reyes National Seashore was slated to put it on exhibit, but they may not be able to approve putting the exhibit on their internet network. There is a slight chance it still may work out, but we are looking for other high people traffic areas, where this exhibit could be highly visible just in case. Its an indoor exhibit, must have electricity, must have high speed internet access (remote 3rd party access). Federal agencies do not allow this to be on their network (including NOAA). If you have any ideas, please contact Jennifer Stock at 415 663 1397.

The BWET grant is coming up for another round of proposals this year. We are getting the word out early as this is the 4th year and the first round of grants expire as you can only receive funding for 3 years. BWET is for hands on, meaningful watershed experiences for students in a systematic way. This is not a grant for tours, volunteer programs, or passive experiences. The funds are meant for programs that have students doing pre activities, hands on outdoor data collecting activities, analyzing the data, and sharing what they learned with a larger audience. The NOAA California Bay Watershed Education and Training (B-WET) Program provides funds to support environment-based education throughout the watersheds of San Francisco Bay, Monterey Bay, and Santa Barbara Channel.

Federal Grant: *Available to schools, organizations in Marin, San Francisco, Alameda counties*

<http://sanctuaries.noaa.gov/news/bwet/welcome.html>

In partnership with the Point Reyes National Seashore, we are developing an interpretive program to be delivered to visitors who come out to the Lighthouse and/or Drakes Beach VC. The program will be short and emphasize the marine resources around the Point Reyes Headlands in the ocean and the national marine sanctuaries themselves. The Lighthouse is a perfect location to reach people as they are surrounded by the elements of

the ocean. We are looking at doing further interpretive exhibits out at the Point Reyes LH as well on the sanctuaries.

The radio program, Ocean Currents is ongoing and you can subscribe to archived shows, by subscribing to the podcast. You can go directly to the CBNMS website for the xml link.

Attachment #4

Proposed Cordell Bank SAC Awards Program – George Clyde

M E M O R A N D U M

<DRAFT-2>

To: Cordell Bank National Marine Sanctuary Advisory Council
From: George Clyde
Re: Proposal for Awards Program
Date: May 22, 2008

I propose that the SAC consider establishing a program whereby awards or some other sort of public recognition will be given periodically to worthy groups or individuals that have helped the Sanctuary carry out its mission. The purpose, in addition to recognizing the recipients, would be to give more public exposure to the Sanctuary, to the Cordell Bank itself and to individuals and organizations that support our efforts.

Features of such a program could include:

- All awards would be subject to Dan's approval. In fact, the Sanctuary itself could make the awards, rather than the SAC.
- The award could be given annually, semi-annually, or spontaneously when the SAC believes that an award is warranted. Members of the SAC could propose nominees that have been cleared with Dan.
- The awards would be publicized with a press release and, where appropriate, a small ceremony. Hopefully there would be some pick-up by local press. There would also likely be mention in the newsletters and internal publications of the CBNMS, the award recipients and the NGOs and agencies that cover the Cordell Bank environment.
- The awards would provide content for the CBNMS website and help tell the Sanctuary's story. If awards are featured on the CBNMS website, the CBNMS website would be picked up when someone searches for the recipient.
- The awards would be paper only, or maybe a small token gift, making the program cost-free.
- Examples of award candidates would be formal or informal partners of the Sanctuary (such as PRBO or Oikonos), media that give good coverage to the

Sanctuary (Bay Nature, websites that track marine mammals or birds, KWMR – which is what got me thinking about the program), commercial or non-profit organizations that help as volunteers, advocates or educators (commercial or charter-boat fishermen, whale or bird watching outfits or their associations, Sea Scouts), and groups that research subjects such as wave energy conversion, vessel noise, marine debris, etc.

If this is something that the SAC or the Sanctuary would be interested in pursuing, I would be happy to assist in any way that I can. Probably the next step would be to prepare a document that fully describes the program for Sanctuary and SAC cons